3/15/2007

IBM BladeCenter - What are blade servers?

BladeCenter: Blade servers

Why IBM BladeCenter Competitive advantages Blade technology

· What are blade servers?

· Flexible availability · Modular scalability

· Fast deployment

· Affordable density

· Technical ramifications

· Easy maintenance

mid- or backplane, sharing power, fans, floppy drives, switches, and ports memory, storage, network controllers, operating system and applications. bookshelf — and each is an independent server, with its own processors, The blade server simply slides into a bay in the chassis and plugs into a Slim, hotswappable blade servers fit in a single chassis like books in a with other blade servers.

The benefits of the blade approach will be obvious to anyone tasked with remove servers. With switches and power units shared, precious space is freed up — and blade servers enable higher density with far greater ease. running down hundreds of cables strung through racks just to add and

Read on to learn more about this amazing advance in enterprise systems management.

IBM BladeCenter vs. HP

Vice President Doug Balog discusses the competitive advantages of IBM BladeCenter over HP.

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IBM BladeCenter - Affordable density

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blade technology achieves high levels of density. Even greater expansion is With a large number of high-performance server blades in a single chassis, possible through option modules: performance and density are balanced, leveraging the infrastructure for optimum utility.

density means fewer racks. Fewer components are duplicated. The number And all this performance and density are highly cost-effective. Increased distribution units are fewer too. Fewer components help add up to fewer capital equipment costs over time. Many day-to-day expenses — power and cooling requirements, assembly and installation hours, floor-space items that can fail or need repair, and modular scalability helps spread of cables is reduced dramatically; in some cases, switches and power square-footage — are designed to be lessened by blade architecture.



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in the chassis, so most blade-server designs require no plugging of multiple In blade technology, new servers are deployed by sliding blades in and out of a chassis. Each blade server connects to the infrastructure components cables into each server as it is installed.

enhanced too. Slide a blade into a profiled bay — the system automatically loads a designated operating system and application image into the blade; the server is designed to get up and running with no human intervention. In advanced blade server systems, the software end of deployment is Or keep a hot blade waiting to be repurposed: under software control alone, the spare can replace a failing blade or help handle peak loads.

	Center Competitive advantages
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swappable, including cooling systems, power supplies, Ethernet controllers blade out of the chassis — it's no more complex than removing a hot-swap All critical components of a blade server can be made redundant or hotprocessors. Removing a server for maintenance just means sliding the and switches, mid- and backplanes, hard disk drives and service

part, allowing for quick, efficient restoration. Some blade servers can even sensitive maintenance. Some blade-server components can alert a systems failure occurs. Advanced diagnostics direct a servicer directly to a failing management processor of impending failure hours or even days before Advanced blade server systems offer smart ways of achieving highly be designed to have no single point of failure.



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Blade servers are revolutionary in that they scale not up but out.

Adding a new server generally involves nothing more than sliding a new uni- or multiprocessor blade into an open bay in the chassis. The blade snaps in. Your infrastructure has expanded. Furthermore, option modules inside the chassis allow you to add shared features that once would have been attached externally. Blade technology's modular design makes scalability lightning fast.



IBM BladeCenter - Flexible availability

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conventional server design, in which each server could accommodate only Blade technology is designed to help eliminate old limitations imposed by

and types of processors. And this rapidly developing technology offers real Each blade in a chassis is really a self-contained server, running its own technologies can therefore support a mix of blades, with varying speeds operating system and software. Sophisticated cooling and power investment protection for the future. one type of processor.



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contributor to an ongoing revolution toward on demand computing. Along Immediate, real-life benefits make blade-server technology an important computing power reminiscent of a utility service like electrical power with other rapidly emerging technologies (grid computing, autonomic computing, Web services, distributed computing, etc.), blade servers' efficiency, flexibility, and cost-effectiveness are helping to make all you can use, whenever you need it.

footprints, are designed to take on self-managing functions essential to the infrastructure. Blade servers, easily clustered to increase power in smaller sophisticated self-management, even self-optimization, across an entire grid and autonomic computing models — especially key functions like New degrees of complexity, diversity, and growth require extremely workload management, dynamic provisioning and virtualization.